

ABSTRACT OF THE DISCLOSURE

Disclosed herein is a sensor utilizing attenuated total reflection. The sensor is equipped with a prism, a metal film formed on a surface of the prism, an optical system for making a light beam enter the prism at various angles of incidence so that the condition for total internal reflection is obtained at the interface between the prism and the metal film, and photodetectors for detecting the light beam satisfying total internal reflection at the interface. In the sensor, a super luminescent diode is employed as a light source that emits the light beam.

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